



# CG01-5/10

## Comb Generator

- Frequency Range: 30MHz-1GHz
- Frequency step: 5/10MHz



EMC Instruments  
corporation

Sales Partner:



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## Features

- Frequency Range: 30MHz-1GHz
- Frequency step: 5/10MHz

## Description

The CG01 series Comb Generator is a radiated reference signal source. As a conducted signal source, the output is available directly from the connector. An antenna is supplied with the Comb Generator for generating radiated reference signals. It is a self-contained source of signals consisting of frequency harmonics at 5/10 MHz intervals, and is usable from 30MHz up to at least 1GHz.

The Comb Generator is powered by a rechargeable internal battery and external power cable connection. When fully charged, the battery allows continuous operation of up to 16 hours. The Comb Generator includes a



battery charger, USB cable, antennas and



accessories that are shipped in a wooden storage box.

## Application

The main application of Comb Generator is to quickly verify conducted emissions test setups. And the most important application is troubleshooting OATS (Open Area Test Sites). An OATS must be completely calibrated before it is put into service.

With the Comb Generator, the test engineer will be able to perform quick a verification of the conducted test setup more frequently to assure accurate test results. For example, any problem or change with antenna, attenuator or receiver will be reflected in the Comb Generator data with the same setup. The same method can be utilized when EMC emissions measurements for a product varies with sites. The Comb Generator can be used to determine if the test sites are causing the variation.

Other uses of the Comb Generator include evaluating shielding effectiveness or resonance performance of enclosures for electronic equipment.

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Frequency Range	30MHz - 1GHz
Frequency Step	5/10MHZ switchable
Power Requirements	USB mini,+5Vdc
Output connectors	50 ohm , SMA Female
Charging time	8~10 Hours
Usage time	16 Hours
Size	120mm(W)*82mm(D)*85mm(H)

## Specification



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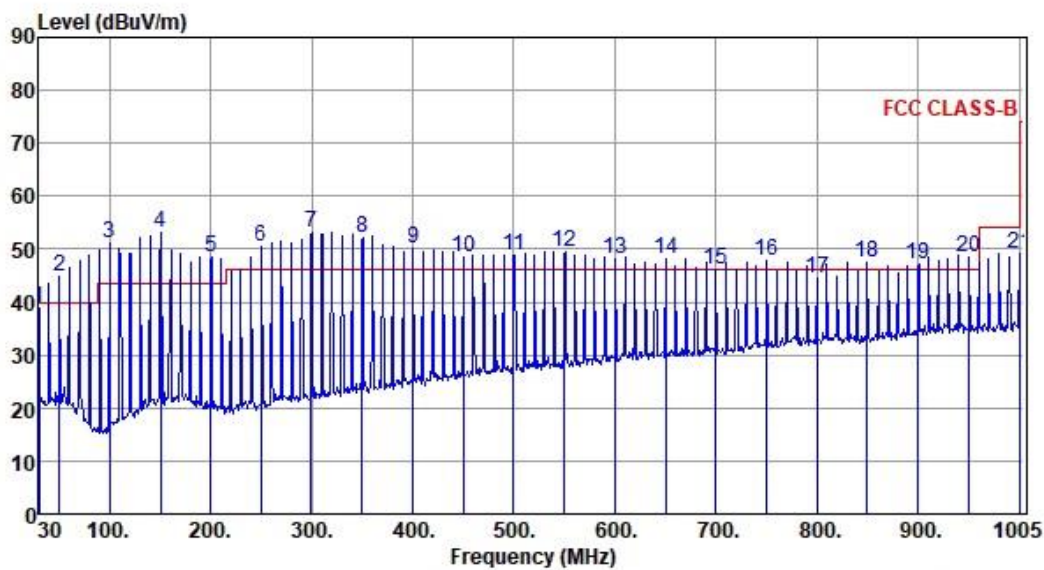
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Measurement distance: 3m Semi-Anechoic chamber  
 RBW= 100kHz  
 VBW= 300kHz

## Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.00	38.84	40.00	-1.16	47.88	-9.04	Peak	---	---
2	49.95	44.95	40.00	4.95	52.95	-8.00	Peak	---	---
3	99.83	51.10	43.50	7.60	64.46	-13.36	Peak	---	---
4	150.18	53.00	43.50	9.50	61.02	-8.02	Peak	---	---
5	200.05	48.60	43.50	5.10	57.95	-9.35	Peak	---	---
6	249.93	50.32	46.00	4.32	59.33	-9.01	Peak	---	---
7	299.80	53.24	46.00	7.24	60.62	-7.38	Peak	---	---
8	350.15	52.00	46.00	6.00	58.03	-6.03	Peak	---	---
9	400.03	50.12	46.00	4.12	54.71	-4.59	Peak	---	---
10	449.90	48.58	46.00	2.58	51.96	-3.38	Peak	---	---
11	499.78	48.91	46.00	2.91	51.28	-2.37	Peak	---	---
12	550.00	49.37	46.00	3.37	50.82	-1.45	Peak	---	---
13	600.00	48.03	46.00	2.03	48.00	0.03	Peak	---	---
14	650.00	48.05	46.00	2.05	47.25	0.80	Peak	---	---
15	700.00	46.16	46.00	0.16	44.56	1.60	Peak	---	---
16	750.00	47.80	46.00	1.80	45.13	2.67	Peak	---	---
17	800.00	44.62	46.00	-1.38	41.44	3.18	Peak	---	---
18	850.00	47.48	46.00	1.48	43.52	3.96	Peak	---	---
19	900.00	47.15	46.00	1.15	42.33	4.82	Peak	---	---
20	950.00	48.48	46.00	2.48	42.77	5.71	Peak	---	---
21	1000.00	49.23	54.00	-4.77	42.92	6.31	Peak	---	---

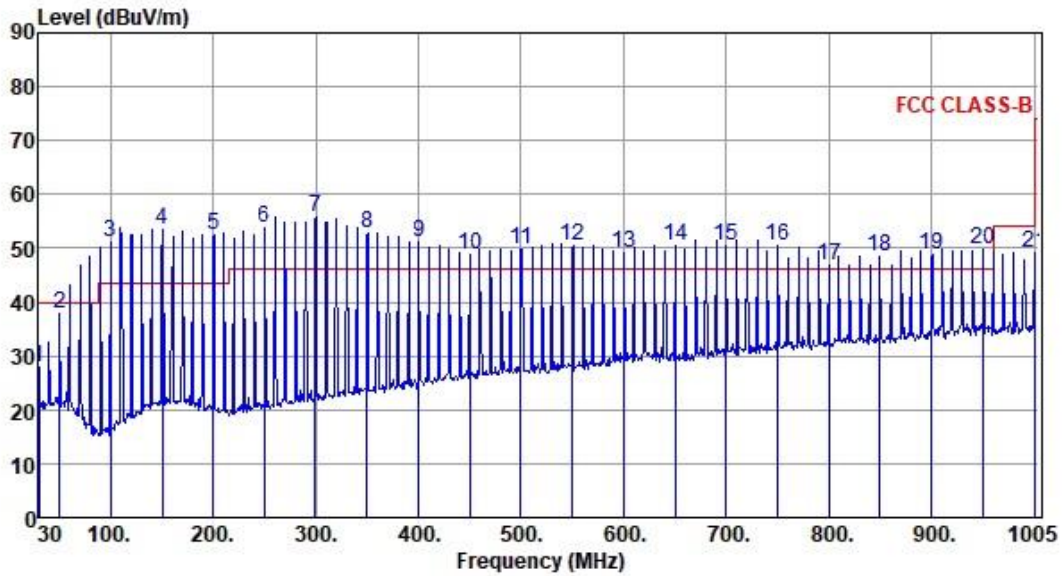
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# Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.00	27.88	40.00	-12.12	36.92	-9.04	Peak	---	---
2	49.95	37.73	40.00	-2.27	45.73	-8.00	Peak	---	---
3	99.83	51.03	43.50	7.53	64.39	-13.36	Peak	---	---
4	150.18	53.57	43.50	10.07	61.59	-8.02	Peak	---	---
5	200.05	52.38	43.50	8.88	61.73	-9.35	Peak	---	---
6	249.93	53.92	46.00	7.92	62.93	-9.01	Peak	---	---
7	299.80	55.89	46.00	9.89	63.27	-7.38	Peak	---	---
8	350.15	52.88	46.00	6.88	58.91	-6.03	Peak	---	---
9	400.03	51.16	46.00	5.16	55.75	-4.59	Peak	---	---
10	449.90	48.83	46.00	2.83	52.21	-3.38	Peak	---	---
11	499.78	49.97	46.00	3.97	52.34	-2.37	Peak	---	---
12	550.00	50.32	46.00	4.32	51.77	-1.45	Peak	---	---
13	600.00	49.26	46.00	3.26	49.23	0.03	Peak	---	---
14	650.00	50.53	46.00	4.53	49.73	0.80	Peak	---	---
15	700.00	50.38	46.00	4.38	48.78	1.60	Peak	---	---
16	750.00	50.37	46.00	4.37	47.70	2.67	Peak	---	---
17	800.00	46.97	46.00	0.97	43.79	3.18	Peak	---	---
18	850.00	48.53	46.00	2.53	44.57	3.96	Peak	---	---
19	900.00	48.97	46.00	2.97	44.15	4.82	Peak	---	---
20	950.00	49.93	46.00	3.93	44.22	5.71	Peak	---	---
21	1000.00	49.21	54.00	-4.79	42.90	6.31	Peak	---	---

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